

Simplified Scientific

Ephemeris

1912

AN EYE SAVER

A TIME SAVER

A MONEY SAVER

The Rosicrucian Fellowship

Oceanside, California, 92054

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By MAX HEINDEL

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textbook

used in the

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Correspondence

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THE ROSICRUCIAN FELLOWSHIP

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EPHEMERIS OF PLUTO FOR 1912

Date	Long.	Dec.	Date	Long.	Dec.
January 27	27° II 15' _R	16° N 59'	July 25	29° II 15'	17° N 23'
February 26	26° II 56'	17° N 4'	August 24	29° II 47'	17° N 22'
March 27	26° II 56' _D	17° N 10'	September 23	0° ☿ 01' _R	17° N 20'
April 26	27° II 17'	17° N 16'	October 23	29° II 56'	17° N 17'
May 26	27° II 52'	17° N 20'	November 22	29° II 32'	17° N 16'
June 25	28° II 35'	17° N 23'	December 22	28° II 57'	17° N 16'

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176 Pages Cloth Bound Index

THE ROSICRUCIAN FELLOWSHIP

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JANUARY, 1912

New Moon January 19th in $\text{WS } 28^{\circ} 4'$

Longitude of the Planets

D	☉ °WS'	♀ °m'	♂ °f'	♂ °g'	♂ °g'	♂ °f'	♂ °g'	♂ °WS'	♂ °WS'	♂ °WS'	♂ °WS'
1	9 43	26 11	25R16	26 40	13R30	4 38	24 21	28 17	22R45	27 05	
2	10 44	27 21	24 45	11II26		50	24	21	43	02	
3	11 46	28 31	23 26	33	27	5 02	27	24	42	26 59	
4	12 47	29 41	13 11	54	25	14	31	28	40	56	
5	13 48	0 f 51	D12	27 16	24	26	36	31	38	52	
6	14 49	2 02	19 12	28	23	38	42	35	36	49	
7	15 50	3 12	24 35	27 20	13 22	5 50	24 48	28 38	22 35	26 46	
8	16 51	4 23	58 11	44	21	6 01	54	41	33	43	
9	17 52	5 34	25 27	39	21	13 25	02	45	31	40	
10	18 54	6 45	26 03	9 3	20	25	10	48	30	36	
11	19 55	7 56	44 22	02	19	36	19	52	28	33	
12	20 56	9 07	27 30	4m37	19	47	28	55	26	30	
13	21 57	10 18	28 20	16 56	19	59	38	59	25	27	
14	22 58	11 30	29 14	29 01	13 18	7 10	25 49	29 02	22 23	26 24	
15	23 59	12 41	0WS12	10 f 59	18	21 26	00	06	21	21	
16	25 00	13 52	1 13	22 51	13D18	32	12	10	20	17	
17	26 01	15 04	2 16	4WS42	19	43	25	13	18	14	
18	27 03	16 16	3 23	16 34	19	54	38	17	16	11	
19	28 04	17 27	4 31	28 27	19	8 05	51	20	14	08	
20	29 05	18 39	5 42	10 23	19	15 27	05	24	13	04	
21	0 06	19 51	6 54	22 24	13 20	8 26	27 20	29 27	22 11	26 01	
22	1 07	21 03	8 09	4 30	21	36	35	31	09	25 58	
23	2 08	22 15	9 24	16 44	22	47	51	34	08	55	
24	3 09	23 27	10 42	29 07	23	57	28 07	38	06	52	
25	4 10	24 39	12 00	11 44	24	9 07	23	41	04	49	
26	5 11	25 51	13 20	24 37	25	18	40	45	03	45	
27	6 12	27 04	14 41	7 50	26	28	58	48	01	42	
28	7 13	28 16	16 04	21 27	13 27	9 37	29 16	29 52	22 00	25 39	
29	8 14	29 28	17 26	5II30	29	47	34	55	21 58	36	
30	9 15	0WS40	18 51	19 59	30	57	53	59	56	33	
31	10 16	1 53	20 16	4 50	32	10 07	0II12	0 02	55	30	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JANUARY, 1912

Full Moon January 4th in ϖ $12^{\circ} 47'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	18 39	23 06	16 49	20 11	21 46	13 37	20 20	21 01	21 02	20 57
2	43	01	17 06		12 25	35	37	22	02	01 57
3	47	22 56	22	13	27 42	36	25	03	01	58
4	50	50	39	17	43	36	27	04	00	58
5	54	44	55	22	25 38	36	29	06	20 59	59
6	58	38	18 10	28	21 43	36	31	08	59	59
7	19 02	22 31	18 26	20 36	16 29	13 36	20 33	21 10	20 58	20 59
8	06	23	49	45	10 28	36	35	11	57	59
9	10	15	55	54	4 09	37	37	14	56	21 00
10	14	07	19 09	21 04	2s 10	37	39	16	56	00
11	18	21 58	22	14	8 10	37	41	18	55	00
12	22	49	35	24	13 42	37	43	21	55	00
13	26	40	48	35	18 33	37	45	23	54	01
14	19 30	21 30	20 00	21 45	22 33	13 37	20 46	21 26	20 54	21 01
15	34	19	11	54	25 34	37	48	29	52	01
16	38	08	23	22 04	27 24	37	50	31	51	02
17	42	20 57	33	12	28 00	38	52	34	51	02
18	46	46	43	20	27 18	38	54	38	50	02
19	50	34	53	28	25 21	39	55	41	49	03
20	54	21	21 01	34	22 17	39	57	44	49	03
21	19 58	20 08	21 10	22 40	18 16	13 39	20 59	21 47	20 48	21 03
22	20 01	19 55	18	44	13 29	40	59	51	47	03
23	05	42	25	48	8 07	40	21 02	54	46	04
24	09	28	32	51	2 22	40	04	58	46	05
25	13	13	38	53	3N 34	41	05	22 01	45	05
26	17	18 59	43	53	9 30	42	07	05	44	05
27	21	44	48	52	15 11	43	08	09	43	05
28	20 25	18 29	21 52	22 51	20 18	13 43	21 09	22 13	20 42	21 05
29	29	13	56	22 48	24 27	44	11	17	42	05
30	33	17 57	59	44	27 11	45	13	20	41	05
31	37	41	22 01	39	28 05	46	14	24	40	06

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

FEBRUARY, 1912

New Moon February 18th in ♋ 28° 29'

Longitude of the Planets

D	☉ ° ♋'	♀ ° ♋'	♂ ° ♋'	♂ ° ♋'	♂ ° ♋'	♂ ° ♋'	♂ ° ♋'	♂ ° ♋'	♂ ° ♋'	♂ ° ♋'	♂ ° ♋'
1	11 17	3 05	21 42	19 58	13 34	10 16	0 32	0 06	21R53	25 26	26
2	12 18	4 18	23 09	5♊13	36	25	52	09	52	24	24
3	13 18	5 30	24 37	20 24	38	35	1 12	13	50	20	20
4	14 19	6 43	26 06	5♊20	40	44	33	16	48	17	17
5	15 20	7 56	27 36	19 52	42	53	54	20	47	14	14
6	16 21	9 08	29 06	3♊56	45	11 02	2 16	23	45	10	10
7	17 22	10 21	0♊37	17 30	13 47	11 11	2 37	0 27	21 44	25 07	07
8	18 22	11 34	2 09	0♊36	50	19	59	30	42	04	04
9	19 23	12 47	3 42	13 17	52	28	3 22	33	41	01	01
10	20 24	14 00	5 15	25 38	55	36	45	37	39	24 58	58
11	21 25	15 13	6 50	7 ♋45	58	45	4 08	40	38	55	55
12	22 25	16 26	8 25	19 41	14 01	53	31	43	37	52	52
13	23 26	17 39	10 02	1♊33	04	12 01	55	47	35	48	48
14	24 27	18 52	11 39	13 23	14 07	12 09	5 19	0 50	21 34	24 45	45
15	25 27	20 05	13 17	25 15	11	17	43	53	33	42	42
16	26 28	21 18	14 55	7♊12	14	24	6 08	57	31	39	39
17	27 28	22 31	16 35	19 15	17	32	32	1 00	30	36	36
18	28 29	23 44	18 15	1♊25	21	39	57	03	29	33	33
19	29 29	24 57	19 57	13 44	25	46	7 23	06	27	30	30
20	0♊30	2♊10	21 39	26 11	28	53	48	10	26	27	27
21	1 30	27 23	23 23	8 ♋49	14 32	13 00	8 14	1 13	21 25	24 23	23
22	2 31	28 37	25 07	21 38	36	07	40	16	24	20	20
23	3 31	29 50	26 52	4 ♋41	40	14	9 06	19	22	17	17
24	4 32	1♊03	28 37	17 59	44	20	33	22	21	14	14
25	5 32	2 16	0♊25	1♊35	49	27	10 00	25	19	10	10
26	6 32	3 30	2 13	15 29	53	33	27	28	20	07	07
27	7 33	4 43	4 03	29 42	57	39	54	31	18	04	04
28	8 33	5 56	5 53	14♊13	15 02	13 45	11 21	1 34	21 17	24 01	01
29	9 33	7 10	7 44	28 57	06	51	49	37	16	23 58	58

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

FEBRUARY, 1912

Full Moon February 2nd in Ω $12^{\circ} 18'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	20 41	17 24	22 03	22 33	26 55	13 47	21 15	22 28	20 40	21 06
2	45	07	04	25	23 45	47	17	32	40	06
3	49	16 50	05	16	18 58	48	18	36	38	07
4	53	32	05	06	13 05	48	19	40	38	07
5	57	15	04	21 54	6 37	50	20	45	37	07
6	21 01	15 57	02	41	0 02	50	22	49	36	07
7	21 05	15 38	22 00	21 27	6s21	13 52	21 23	22 53	20 35	21 08
8	08	20	21 58	11	12 15	52	24	57	34	08
9	12	01	54	20 54	17 27	54	25	23 01	34	08
10	16	14 42	50	36	21 47	54	26	05	33	08
11	20	22	46	16	25 05	56	27	09	32	09
12	24	03	41	19 55	27 14	57	28	13	32	09
13	28	13 43	35	33	28 08	59	29	17	31	09
14	21 32	13 23	21 28	19 09	27 44	13 59	21 30	23 21	20 31	21 09
15	36	02	21 18	44	26 04	14 01	31	25	30	10
16	40	12 42	13	18	23 14	03	32	29	29	10
17	44	21	05	17 50	19 23	04	33	33	28	10
18	48	00	20 56	20	14 41	05	34	37	27	10
19	52	11 39	46	16 50	9 22	06	35	41	27	11
20	56	18	36	18	3 36	08	36	45	26	11
21	22 00	10 57	20 25	15 44	2N23	14 09	21 36	23 49	20 25	21 11
22	04	35	14	09	8 22	11	37	53	25	11
23	08	13	02	14 33	14 07	12	38	57	24	11
24	12	9 51	19 49	13 55	19 19	13	38	24 00	23	11
25	15	29	36	16	23 40	15	39	04	23	12
26	19	07	22	12 36	26 45	16	40	08	22	12
27	23	8 44	08	11 54	28 12	18	41	11	21	12
28	22 27	8 22	18 53	11 11	27 45	14 19	21 41	24 15	20 20	21 13
29	31	7 59	38	10 27	25 23	21	42	18	20	13

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MARCH, 1912

New Moon March 18th in ♋ 27° 32'

Longitude of the Planets

D	☉ ° ♈'	♀ ° ♊'	♂ ° ♈'	♂ ° ♊'	♂ ° ♈'	♂ ° ♊'	♂ ° ♈'	♂ ° ♊'	♂ ° ♈'	♂ ° ♊'	♂ ° ♈'	♂ ° ♊'
1	10 33	8 23	9 36	13 48	15 11	13 56	12 16	1 40	21 15	23 54		
2	11 33	9 36	11 29	28 38	16	14 02	44	43	14	51		
3	12 33	10 50	13 22	13 18	21	07	13 12	46	13	48		
4	13 34	12 03	15 17	27 42	25	12	41	49	12	45		
5	14 34	13 17	17 13	11 43	30	17	14 09	52	11	42		
6	15 34	14 30	19 09	25 20	35	22	38	54	10	39		
7	16 34	15 43	21 06	8 31	15 41	14 26	15 07	1 57	21 10	23 35		
8	17 34	16 57	23 03	21 18	46	31	36	2 00	09	32		
9	18 34	18 10	25 00	3 44	51	35	16 05	03	08	29		
10	19 33	19 24	26 58	15 55	56	39	34	05	07	26		
11	20 33	20 37	28 55	27 55	16 02	43	17 04	08	07	23		
12	21 33	21 51	0 52	9 48	07	47	33	11	06	20		
13	22 33	23 04	2 48	21 40	13	50	18 03	13	05	16		
14	23 33	24 18	4 44	3 34	16 19	14 54	18 33	2 16	21 05	23 13		
15	24 33	25 31	6 38	15 34	24	57	19 03	18	04	10		
16	25 32	26 45	8 31	27 43	30	15 00	33	21	04	07		
17	26 32	27 59	10 21	10 03	36	03	20 03	23	03	04		
18	27 32	29 12	12 09	22 36	42	06	34	25	03	02		
19	28 31	0 26	13 53	5 21	48	08	21 04	28	02	22 57		
20	29 31	1 39	15 35	18 19	54	10	35	30	02	54		
21	0 31	2 53	17 12	1 31	17 00	15 12	22 06	2 32	21 01	22 51		
22	1 30	4 06	18 45	14 54	06	14	37	34	01	48		
23	2 30	5 20	20 13	28 30	13	16	23 08	37	01	44		
24	3 29	6 34	21 36	12 18	19	18	39	39	00	41		
25	4 29	7 47	22 53	26 16	25	19	24 10	41	00	38		
26	5 28	9 01	24 04	10 24	32	20	42	43	00	35		
27	6 27	10 14	25 09	24 41	38	21	25 13	45	00	32		
28	7 27	11 28	26 08	9 02	17 45	15 22	25 45	2 47	21 00	22 28		
29	8 26	12 42	26 59	23 26	51	23	26 16	49	20 59	25		
30	9 25	13 55	27 45	7 47	58	23	48	51	59	22		
31	10 24	15 09	28 22	22 00	18 04	24	27 20	53	59	19		

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MARCH, 1912

Full Moon March 3rd in $m 12^{\circ} 33'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ N	♂ S	♂ N
1	22 35	7 37	18 22	9 41	21 17	14 22	21 43	24 22	20 19	21 13
2	39	14	05	8 54	15 50	24	43	25	19	13
3	43	6 51	17 48	06	9 33	26	44	28	18	13
4	47	28	31	7 17	2 52	27	44	31	18	13
5	51	05	13	6 26	3s47	29	45	34	17	14
6	55	5 42	16 54	5 34	10 05	30	45	37	17	14
7	22 59	5 18	16 35	4 42	15 45	14 32	21 46	24 40	20 16	21 14
8	23 03	4 55	16	3 48	20 33	33	46	43	16	14
9	07	31	15 56	2 54	24 19	36	47	46	15	14
10	11	08	36	1 49	26 54	37	47	48	15	14
11	15	3 44	15	04	28 11	39	48	51	14	14
12	19	21	14 54	0 08	10	41	48	53	14	14
13	23	2 57	32	N48	26 51	43	48	56	12	15
14	23 26	2 34	14 10	1 44	24 19	14 45	21 48	24 58	20 12	21 15
15	30	10	13 48	2 40	20 44	47	49	25 00	11	15
16	34	1 46	25	3 35	16 14	48	49	02	11	15
17	38	23	02	4 29	11 01	50	50	04	10	15
18	42	0 59	12 38	5 23	5 16	52	50	06	10	15
19	46	35	14	6 15	0N47	54	50	08	09	15
20	50	11	11 50	7 06	6 55	56	50	09	09	16
21	23 54	0N12	11 26	7 55	12 51	14 58	21 50	25 11	20 08	21 16
22	58	36	01	8 42	18 19	15 00	50	12	08	16
23	0 02	1 00	10 36	9 27	22 55	02	51	13	07	16
24	06	23	10	10 09	26 19	04	51	15	07	16
25	10	47	9 45	49	28 09	06	51	16	06	16
26	14	2 11	19	11 25	11	07	51	16	06	16
27	18	34	8 52	59	26 22	09	51	17	06	16
28	0 22	2 57	8 26	12 30	22 51	15 11	21 51	25 18	20 06	21 16
29	26	3 21	7 59	57	17 56	13	51	18	05	16
30	30	44	32	13 20	12 02	15	51	19	05	16
31	33	4 07	05	40	5 34	17	51	19	04	16

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

APRIL, 1912

New Moon (Eclipse) April 17th in γ $27^{\circ} 6'$

Longitude of the Planets

D	☉ °γ'	♀ °κ'	♄ °γ'	♂ °♌'	♂ °♏'	♂ °♐'	♂ °♑'	♂ °♒'	♂ °♓'	♂ °♈'
1	11 23	16 22	28 53	6 00	18 11	15R24	27 52	2 54	20D59	22 16
2	12 22	17 36	29 17	19 45	18	24	28 24	56	59	13
3	13 22	18 49	33	3M11	25	23	56	58	59	10
4	14 21	20 03	43	16 17	31	23	29 29	3 00	59	07
5	15 20	21 17	45	29 03	38	22	0♓01	01	21 00	03
6	16 19	22 30	R40	11 ♯ 32	45	21	0 33	03	00	00
7	17 18	23 44	29 30	23 46	18 52	15 20	1 06	3 04	21 00	21 57
8	18 17	24 57	13	5V348	59	19	39	06	00	54
9	19 15	26 11	28 50	17 43	19 06	18	2 11	07	00	50
10	20 14	27 25	22	29 36	13	16	44	09	01	47
11	21 13	28 38	27 50	11W32	21	14	3 17	10	01	44
12	22 12	29 52	14	23 34	28	12	50	11	01	41
13	23 11	1γ06	26 35	5κ46	35	10	4 23	12	02	38
14	24 10	2 19	25 54	18 13	19 42	15 08	4 56	3 14	21 02	21 35
15	25 08	3 33	11	0γ56	50	05	5 29	15	03	31
16	26 07	4 46	24 27	13 57	57	03	6 02	16	03	28
17	27 06	6 00	23 44	27 17	20 04	00	35	17	04	25
18	28 04	7 14	01	10 8 53	12	14 57	7 08	18	04	22
19	29 03	8 27	22 20	24 44	19	54	42	19	05	19
20	0 8 01	9 41	21 42	8II46	26	50	8 15	20	05	16
21	1 00	10 54	21 06	22 57	20 34	14 47	8 49	3 21	21 06	21 12
22	1 58	12 08	20 34	7♓12	41	43	9 22	21	07	09
23	2 57	13 22	06	21 28	49	39	56	22	07	06
24	3 55	14 35	19 42	5♌42	56	35	10 30	23	08	03
25	4 54	15 49	23	19 52	21 04	31	11 04	24	09	00
26	5 52	17 02	08	3M255	12	26	37	24	10	20 57
27	6 50	18 16	18 58	17 49	19	22	12 11	25	11	20 53
28	7 49	19 30	18 53	1♌34	21 27	14 17	12 45	3 25	21 11	20 50
29	8 47	20 43	D53	15 07	34	12	13 19	26	12	47
30	9 45	21 57	58	28 28	42	07	13 53	26	13	44

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

APRIL, 1912

Full Moon (Eclipse) April 1st in $\approx 11^{\circ} 23'$

Declination of the Planets

D	ST	☉ N	♀ S	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S
1	0 37	4 31	6 38	13 57	1 05	15 19	21 51	25 19	20 03	21 16	
2	41	54	10	14 09	7 35	21	51	19	03	16	
3	45	5 17	5 43	18	13 35	23	51	19	03	16	
4	49	40	15	24	18 50	25	51	19	03	16	
5	53	6 03	4 47	25	23 06	28	51	19	02	16	
6	57	25	18	22	26 11	30	51	18	02	16	
7	1 01	6 48	3 50	14 16	27 58	15 32	21 50	25 18	20 01	21 16	
8	05	7 10	22	06	28 24	34	50	17	01	16	
9	09	33	2 53	13 53	27 30	36	50	16	01	16	
10	13	55	25	37	25 21	38	50	15	01	16	
11	17	8 17	1 56	17	22 06	40	50	14	00	16	
12	21	39	27	12 54	17 54	42	50	12	00	16	
13	25	9 01	0 58	30	12 55	44	49	11	00	16	
14	1 29	9 23	0 30	12 03	7 20	15 46	21 49	25 09	20 00	21 16	
15	33	44	01	11 34	1 20	48	49	07	19 59	16	
16	37	10 06	N28	04	4N51	50	49	06	59	16	
17	40	27	57	10 34	11 00	52	48	04	59	16	
18	44	48	1 26	03	16 45	54	48	01	59	19	
19	48	11 09	55	9 32	21 46	56	47	24 59	58	16	
20	52	29	2 24	02	25 36	58	47	57	58	16	
21	1 56	11 50	2 53	8 33	27 53	16 01	21 46	24 54	19 58	21 16	
22	2 00	12 10	3 22	05	28 21	03	46	51	58	16	
23	04	30	51	7 39	26 56	05	45	48	58	16	
24	08	50	4 19	15	23 48	07	45	45	58	16	
25	12	13 10	48	6 53	19 16	09	45	42	57	15	
26	16	29	5 17	34	13 42	11	45	39	57	15	
27	20	49	45	17	7 31	13	44	35	57	15	
28	2 24	14 08	6 13	6 02	1 02	16 15	21 43	24 32	19 57	21 15	
29	28	26	41	5 50	5s25	17	42	28	57	15	
30	32	45	7 10	40	11 31	19	42	24	57	15	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MAY, 1912

New Moon May 16th in γ $25^{\circ} 13'$

Longitude of the Planets

D	☉ ° 8'	♀ ° 9'	♂ ° 9'	♂ ° 9'	♂ ° 9'	♂ ° 9'	♂ ° 9'	♂ ° 9'	♂ ° 9'	♂ ° 9'	♂ ° 9'
1	10 43	23 10	19 07	11 34	21 50	14R02	14 27	3 26	21 14	20 41	
2	11 42	24 24	21	24 27	57	13 57	15 02	27	15	37	
3	12 40	25 37	40	7 04	22 05	51	36	27	16	34	
4	13 33	26 51	20 03	19 28	13	46	16 10	27	17	31	
5	14 36	28 04	31	13 40	20	40	44	27	18	28	
6	15 34	29 18	21 02	13 42	28	34	17 19	28	20	25	
7	16 32	0 8 32	21 38	25 37	22 36	13 28	17 53	3 28	21 21	20 21	
8	17 30	1 45	22 18	7 30	44	22 18	28	3R28	22	18	
9	18 28	2 59	23 01	19 25	51	16 19	02	28	23	15	
10	19 26	4 12	48	1 26	59	10	37	27	24	12	
11	20 24	5 26	24 38	13 39	23 07	03 20	11	27	26	09	
12	21 22	6 39	25 32	26 07	15	12 57	46	27	27	05	
13	22 20	7 53	26 29	8 55	22	50	21 20	27	28	02	
14	23 18	9 06	27 29	22 06	23 30	12 43	21 55	3 27	21 29	19 59	
15	24 15	10 20	28 32	5 39	38	37 22	30	26	31	56	
16	25 13	11 34	29 38	19 36	46	30 23	05	25	32	53	
17	26 11	12 47	0 8 47	3 52	53	23	40	25	34	50	
18	27 09	14 01	1 58	18 22	24 01	16 24	15	25	35	47	
19	28 07	15 14	3 13	3 01	09	08	50	24	37	43	
20	29 04	16 28	4 29	17 40	17	01 25	25	24	38	40	
21	0 02	17 41	5 49	2 14	24 24	11 54	26 00	3 23	21 40	19 37	
22	1 00	18 55	7 10	16 37	32	47	35	23	41	34	
23	1 57	20 08	8 35	0 47	40	39 27	10	22	43	31	
24	2 55	21 22	10 02	14 40	47	32	45	21	44	27	
25	3 53	22 35	11 32	28 19	55	24 28	20	20	46	24	
26	4 50	23 49	13 03	11 42	25 03	17	55	19	47	21	
27	5 48	25 03	14 38	24 53	11	09 29	31	19	49	18	
28	6 45	26 16	16 14	7 50	25 18	11 02	0 06	3 18	21 51	19 15	
29	7 43	27 30	17 54	20 36	26	10 54	41	17	52	12	
30	8 40	28 43	19 35	3 11	34	46	1 17	16	54	09	
31	9 38	29 57	21 19	15 35	41	39	52	14	56	05	

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MAY, 1912

Full Moon May 1st in η $10^{\circ} 43'$ Full Moon May 30th in ϵ $8^{\circ} 40'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	2 36	15 03	7 37	5 33	17 02	16 21	21 41	24 20	19 57	21 15
2	40	21	8 05	29	21 39	23	41	16	57	15
3	44	39	33	27	25 12	25	40	11	57	14
4	48	56	9 00	28	27 28	27	40	07	57	14
5	51	16 14	27	31	28 22	29	39	02	57	14
6	55	31	54	36	27 54	31	38	23 57	57	14
7	2 59	16 47	10 21	5 44	26 09	16 33	21 37	23 52	19 57	21 14
8	3 03	17 04	48	53	23 15	35	37	47	57	14
9	07	20	11 14	6 05	19 23	37	36	42	57	14
10	11	36	40	19	14 42	39	35	36	57	14
11	15	52	12 06	35	9 23	41	34	31	57	13
12	19	18 07	31	52	3 35	43	34	25	57	13
13	23	22	57	7 11	2N31	45	33	19	57	13
14	3 27	18 37	13 22	7 32	8 41	16 47	21 32	23 13	19 57	21 13
15	31	51	46	54	14 38	49	31	07	57	13
16	35	19 05	14 10	8 18	20 01	51	31	01	57	13
17	39	19	34	43	24 23	53	30	22 55	58	12
18	43	32	58	9 10	27 17	55	29	48	58	12
19	47	45	15 21	37	28 20	57	28	41	58	12
20	51	58	44	10 06	27 24	59	27	35	58	12
21	3 55	20 10	16 07	10 36	24 36	17 01	21 26	22 28	19 58	21 11
22	58	22	29	11 07	20 18	03	25	20	58	11
23	4 02	34	50	39	14 55	05	24	13	59	11
24	06	45	17 11	12 11	8 51	07	23	06	59	11
25	10	56	32	45	2 29	08	22	21 58	59	10
26	14	21 07	53	13 19	3S53	10	21	51	59	10
27	18	17	18 12	54	9 58	12	21	43	20 00	10
28	4 22	21 27	18 32	14 29	15 33	17 14	21 20	21 35	20 01	21 10
29	26	37	51	15 04	20 22	16	19	27	01	09
30	30	46	19 09	40	24 12	18	18	19	01	09
31	34	54	27	16 16	26 50	19	17	10	01	09

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JUNE, 1912

New Moon June 15th in Π $23^{\circ} 58'$

Longitude of the Planets

D	☉ °Π'	♀ °Π'	♂ °♂'	♂ °♂'	♂ °♂'	♂ °♂'	♂ °♂'	♂ °♂'	♂ °♂'	♂ °♂'	♂ °♂'
1	10 35	1 16	23 05	27 50	25 49	10R31	2 28	3R13	21 58	19 02	
2	11 33	2 24	24 54	9V56	56	23	3 03	12	59	18 59	
3	12 30	3 37	26 44	21 54	26 04	16	39	11	22 01	56	
4	13 28	4 51	28 38	3W48	11	08	4 14	10	03	53	
5	14 25	6 04	0Π33	15 40	19	01	50	08	05	49	
6	15 22	7 18	2 32	27 33	26	9 53	5 25	3 07	07	46	
7	16 20	8 32	4 32	9X33	26 34	9 45	6 01	3 06	22 09	18 43	
8	17 17	9 45	6 34	21 43	41	38	37	04	11	40	
9	18 14	10 59	8 37	4Y09	49	30	7 12	03	12	37	
10	19 12	12 12	10 43	16 56	56	23	48	01	14	34	
11	20 09	13 26	12 50	0808	27 04	15	8 24	00	16	30	
12	21 06	14 40	14 59	13 46	11	08	9 00	2 58	18	27	
13	22 04	15 53	17 08	27 53	18	01	36	57	20	24	
14	23 01	17 07	19 19	12Π24	27 25	8 53	10 11	2 55	22 22	18 21	
15	23 58	18 20	21 31	27 15	33	46	47	53	24	18	
16	24 56	19 34	23 43	12Σ17	40	39	11 23	52	26	15	
17	25 53	20 48	25 54	27 20	47	32	59	50	28	11	
18	26 50	22 01	28 06	12Ω15	54	25	12 35	48	30	07	
19	27 48	23 15	0Σ17	26 54	28 01	18	13 12	46	32	05	
20	28 45	24 29	2 28	11M12	08	12	48	45	34	03	
21	29 42	25 42	4 38	25 08	28 15	8 05	14 24	2 43	22 36	17 58	
22	0Σ39	26 56	6 46	8=41	22	7 58	15 00	41	39	55	
23	1 37	28 10	8 53	21 54	29	52	36	39	41	52	
24	2 34	29 23	10 59	4M50	36	45	16 12	37	43	49	
25	3 31	0Σ37	13 02	17 32	43	39	49	35	45	46	
26	4 28	1 51	15 05	0♂01	50	33	17 25	33	47	43	
27	5 25	3 04	17 05	12 21	57	27	18 01	31	49	39	
28	6 23	4 18	19 04	24 32	29 03	7 21	18 38	2 29	22 51	17 36	
29	7 20	5 32	21 00	6V37	10	15	19 14	27	53	33	
30	8 17	6 45	22 55	18 36	17	10	51	25	56	30	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JUNE, 1912

Full Moon June 29th in $\text{vs } 7^{\circ} 20'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	4 38	22 03	19 44	16 52	28 09	17 21	21 16	21 02	20 01	21 09
2	42	11 20	01 17	28 05	23 15	20 53	01 09			
3	46	19 18	18 04	26 42	25 14	44 02	08			
4	50	26 33	40 24	07 27	13 35	02 08				
5	54	33 49	19 15	20 32	28 12	26 02	08			
6	58	39 21	03 49	16 07	30 11	17 02	07			
7	5 02	22 45	21 17	20 22	11 03	17 31	21 10	20 08	20 03	21 07
8	06	51 31	54 5 30	33 09	19 59	03 07				
9	09	56 44	21 25	0N23	35 08	49 04	06			
10	13	23 01	56 55	6 25	36 07	40 04	06			
11	17	05 22	08 22	23 12	23 38	06 30	04 06			
12	21	09 19	49 17	57 40	05 20	04 05				
13	25	13 29	23 13	22 45	41 04	10 05	05			
14	5 29	23 16	22 39	23 34	26 18	17 43	21 03	19 00	20 05	21 05
15	33	19 48	54 28	06 45	02 18	50 06	04			
16	37	21 57	24 10	27 52	46 01	39 06	04			
17	41	23 23	05 24	25 36	48 00	29 07	04			
18	45	25 12	36 21	35 50	20 59	18 07	03			
19	49	26 18	44 16	18 51	58 07	08 03				
20	53	27 24	50 10	14 53	58 17	57 08	03			
21	5 57	23 27	23 29	24 53	3 48	17 54	20 57	17 46	20 09	21 02
22	6 01	27 34	53 28	38 56	56 35	09 02				
23	05	27 37	50 8	48 57	55 23	10 02				
24	09	26 40	45 14	28 59	54 12	10 01				
25	13	24 43	37 19	24 18	00 53	01 10	01			
26	16	23 44	26 23	25 01	53 16	49 11	01			
27	20	20 45	14 26	18 02	52 38	11 01				
28	6 24	23 18	23 45	23 59	27 55	18 03	20 51	16 26	20 12	21 00
29	28	15 45	42 28	11 05	50 14	12 00				
30	32	12 44	23 27	06 07	49 02	13 00				

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JULY, 1912

New Moon July 14th in ♌ 21° 38'

Longitude of the Planets

D	☉ ° ̣'	♀ ° ̣'	♂ ° ̣'	♂ ° ̣'	♂ ° ̣'	♂ ° ̣'	♂ ° ̣'	♂ ° ̣'	♂ ° ̣'	♂ ° ̣'	♂ ° ̣'
1	9 14	7 59	24 48	0 31	29 23	7R04	20 27	2R23	22 58	17 27	
2	10 11	9 13	26 39	12 23	30	6 59	21 03	20	23 00	23	
3	11 08	10 27	28 27	24 14	36	54	40	18	02	20	
4	12 06	11 40	0♌14	6♋07	43	48	22 17	16	04	17	
5	13 03	12 54	1 58	18 06	49	44	53	14	07	14	
6	14 00	14 08	3 41	0♎15	56	39	23 30	12	09	11	
7	14 57	15 22	5 21	12 39	0♐02	6 34	24 07	2 09	23 11	17 08	
8	15 54	16 35	6 59	25 22	08	30	43	07	13	05	
9	16 52	17 49	8 35	8♌30	14	25	25 20	05	15	01	
10	17 49	19 03	10 09	22 06	20	21	57	03	18	16 58	
11	18 46	20 17	11 41	6♐11	26	17	26 33	00	20	55	
12	19 43	21 31	13 11	20 45	32	13	27 10	1 58	22	52	
13	20 41	22 45	14 39	5♌42	38	10	47	56	24	49	
14	21 38	23 58	16 05	20 55	0 44	6 06	28 24	1 53	23 27	16 45	
15	22 35	25 12	17 28	6♌12	50	03	29 01	51	29	42	
16	23 32	26 26	18 50	21 23	56	5 59	38	49	31	39	
17	24 30	27 40	20 09	6♎17	1 01	56	0♎15	46	33	36	
18	25 27	28 54	21 25	20 48	07	54	52	44	35	33	
19	26 24	0♌08	22 39	4♌52	12	51	1 29	41	38	30	
20	27 21	1 22	23 52	18 29	18	48	2 06	39	40	26	
21	28 19	2 36	25 01	1♎42	1 23	5 46	2 43	1 37	23 42	16 23	
22	29 16	3 49	26 08	14 33	29	44	3 20	34	44	20	
23	0♌13	5 03	27 12	27 07	34	42	57	32	47	17	
24	1 11	6 17	28 14	9♌27	39	40	4 35	29	49	14	
25	2 08	7 31	29 13	21 37	44	39	5 12	27	51	10	
26	3 05	8 45	0♎09	3♎39	49	37	49	25	53	07	
27	4 03	9 59	1 01	15 37	54	5 36	6 27	22	55	04	
28	5 00	11 13	1 51	27 31	1 59	5 35	7 04	1 20	23 58	16 02	
29	5 57	12 27	2 37	9♌23	2 04	34	41	17	24 00	15 58	
30	6 55	13 41	3 20	21 15	09	34	8 19	15	02	55	
31	7 52	14 55	3 59	3♋09	13	33	56	13	04	51	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

JULY, 1912

Full Moon July 29th in ♋ 5° 57'

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	6 36	23 08	23 42	23 02	24 49	18 08	20 49	15 50	20 13	20 59
2	40	04	39	22 40	21 27	09	48	38	13	59
3	44	22 59	36	16	17 14	11	47	26	14	59
4	48	54	32	21 51	12 21	12	47	14	14	58
5	52	49	28	25	6 57	13	46	01	15	58
6	56	43	22	20 57	1 15	14	46	14 49	15	58
7	7 00	22 37	23 16	20 28	4N38	18 16	20 45	14 36	20 17	20 57
8	04	30	09	19 59	10 30	17	45	23	17	57
9	08	23	02	28	16 05	18	44	11	18	57
10	12	16	22 54	18 57	21 06	19	44	13 58	18	56
11	16	08	45	25	25 06	20	43	45	19	56
12	20	00	36	17 53	27 37	22	43	32	19	56
13	23	21 52	25	20	28 14	23	42	18	20	55
14	7 27	21 43	22 15	16 47	26 45	18 24	20 42	13 05	20 20	20 55
15	31	34	03	14	23 18	25	41	12 52	21	54
16	35	24	21 51	15 41	18 16	26	41	38	21	54
17	39	14	38	07	12 12	27	40	25	22	54
18	43	04	25	14 33	5 37	28	40	11	22	54
19	47	20 53	11	00	1s03	29	40	11 58	23	53
20	51	42	20 57	13 26	7 28	30	40	44	23	53
21	7 55	20 31	20 41	12 53	13 22	18 31	20 39	11 30	20 24	20 52
22	59	19	26	21	18 32	32	39	16	24	52
23	8 03	07	09	11 48	22 46	33	39	02	25	51
24	07	19 54	19 52	16	25 53	34	39	10 48	25	51
25	11	42	35	10 45	27 46	35	39	34	26	51
26	15	29	17	15	28 19	35	39	20	26	50
27	19	15	18 58	9 45	27 31	36	39	06	27	50
28	8 23	19 02	18 39	9 16	25 28	18 37	20 39	9 52	20 27	20 50
29	27	18 48	19	8 48	22 19	38	39	39	28	49
30	31	33	17 59	21	18 15	38	39	23	28	49
31	34	19	36	7 56	13 28	39	39	08	29	48

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

AUGUST, 1912

New Moon August 12th in ♋ 19° 22'

Longitude of the Planets

D	☉ ° 〴'	♀ ° 〴'	♄ ° 〴'	♃ ° 〴'	♅ ° 〴'	♁ ° 〴'	♂ ° 〴'	♃ ° 〴'	♃ ° 〴'	♃ ° 〴'
1	8 49	16 09	4 34	15 05	2 18	5R33	9 34	1R10	24 06	15 48
2	9 47	17 23	5 05	27 08	22	33	10 11	08	08	45
3	10 44	18 37	32	9 20	27	D33	49	06	11	42
4	11 42	19 51	54	21 46	31	33	11 26	03	13	39
5	12 39	21 05	6 12	4 29	35	34	12 04	01	15	36
6	13 37	22 19	25	17 33	39	34	42	0 59	17	33
7	14 34	23 33	6 33	1 03	2 43	5 35	13 19	0 56	24 19	15 29
8	15 32	24 47	36	15 00	47	36	57	54	21	26
9	16 29	26 01	R33	29 25	51	37	14 35	52	23	23
10	17 27	27 15	25	14 15	55	38	15 13	49	25	19
11	18 24	28 29	12	29 22	59	40	50	47	28	16
12	19 22	29 43	5 53	14 38	3 02	42	16 28	45	30	13
13	20 20	0 57	29	29 51	06	44	17 06	43	32	10
14	21 17	2 11	5 00	14 52	3 09	5 46	17 44	0 40	24 34	15 07
15	22 15	3 25	4 25	29 31	13	48	18 22	38	36	04
16	23 13	4 39	3 46	13 44	16	50	19 00	36	38	01
17	24 10	5 53	02	27 30	19	53	38	34	40	57
18	25 08	7 08	2 16	10 48	22	56	20 16	32	42	54
19	26 06	8 22	1 26	23 42	25	59	55	30	44	51
20	27 04	9 36	0 34	6 15	28	6 02	21 33	28	46	48
21	28 01	10 50	29 41	18 33	3 31	6 05	22 11	0 26	24 48	14 45
22	28 59	12 04	28 48	0 39	34	09	49	24	49	42
23	29 57	13 18	27 56	12 37	36	13	23 28	22	51	38
24	0 55	14 32	06	24 30	39	16	24 06	20	53	35
25	1 53	15 46	26 19	6 22	41	20	44	18	55	32
26	2 51	17 00	25 37	18 15	43	25	25 23	16	57	29
27	3 49	18 14	24 59	0 10	45	29	26 01	14	59	26
28	4 47	19 28	24 28	12 09	3 47	6 34	26 40	0 12	25 01	14 22
29	5 45	20 42	04	24 14	49	38	27 18	10	02	19
30	6 43	21 56	23 46	6 27	51	43	57	09	04	16
31	7 41	23 11	38	18 50	53	48	28 35	07	06	13

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

AUGUST, 1912

Full Moon August 27th in \propto 3° 49'

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ S	♂ N	♂ S	♂ N	♂ S	♂ N
1	8 38	18 04	17 17	7 31	8 10	18 40	20 39	8 54	20 30	20 48
2	42	17 48	16 56	09	2 31	41	39	39	30	48
3	46	33	34	6 47	3N18	42	40	24	31	47
4	50	17	11	28	9 06	42	40	10	31	47
5	54	01	15 48	11	14 40	43	40	7 55	32	47
6	58	16 45	25	5 55	19 45	43	41	40	32	46
7	9 02	16 28	15 01	5 42	24 01	18 44	20 41	7 25	20 33	20 46
8	06	11	14 37	31	27 01	45	41	10	33	46
9	10	15 54	12	22	28 22	46	42	6 55	34	45
10	14	37	13 47	17	27 45	46	42	40	34	45
11	18	19	22	14	25 05	47	43	25	35	44
12	22	01	12 56	13	20 38	47	43	10	35	44
13	26	14 43	30	16	14 50	48	44	5 54	36	44
14	9 30	14 25	12 03	5 22	8 14	18 48	20 44	5 39	20 36	20 43
15	34	06	11 37	31	1 20	49	45	24	37	43
16	38	13 47	10	43	5s26	49	45	08	37	43
17	41	28	10 42	58	11 45	50	46	4 53	38	42
18	45	09	14	6 15	17 19	50	47	38	38	42
19	49	12 49	9 47	36	21 55	50	48	22	39	42
20	53	30	18	58	25 24	51	48	07	39	41
21	9 57	12 10	8 50	7 23	27 36	18 51	20 49	3 51	20 40	20 41
22	10 01	11 50	21	50	28 28	51	50	35	40	41
23	05	30	7 52	8 17	27 58	52	51	20	40	40
24	09	09	23	46	26 12	52	51	04	41	40
25	13	10 49	6 54	9 14	23 16	52	52	2 49	41	40
26	17	28	24	43	19 22	53	53	33	41	39
27	21	07	5 55	10 11	14 42	53	54	17	42	39
28	10 25	9 46	5 25	10 37	9 27	18 53	20 55	2 01	20 42	20 39
29	29	24	4 55	11 02	3 48	53	56	1 46	43	38
30	33	03	25	25	2N02	54	57	30	43	38
31	37	8 42	3 55	46	7 54	54	58	14	44	38

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

SEPTEMBER, 1912

New Moon September 11th in $\text{m}\gamma 18^{\circ} 21'$

Longitude of the Planets

D	☉ °m'	♀ °m'	♂ °o'	♂ °o'	♂ °o'	♂ °o'	♂ °o'	♂ °o'	♂ °o'	♂ °o'	♂ °o'
1	8 39	24 25	23 _D 37	1 25	3 55	6 53	29 14	0r05	25 08	14 10	
2	9 37	25 39	23 45	14 14	56	59	52	03	09	07	
3	10 35	26 53	24 01	27 22	58	7 04	0 _≡ 31	02	11	03	
4	11 33	28 07	24 26	10 _{II} 50	59	10	1 10	00	13	01	
5	12 31	29 21	25 00	24 40	4 00	15	49 ₂₉ 59	25 14	13 57		
6	13 29	0 _≡ 35	25 41	8 _≡ 52	01	21	2 28	57	16	54	
7	14 28	1 49	26 31	23 25	4 02	7 27	3 06	29 56	25 18	13 51	
8	15 26	3 03	27 29	8 _Ω 14	03	34	45	54	19	47	
9	16 24	4 17	28 33	23 13	04	40	4 24	53	21	44	
10	17 23	5 31	29 44	8 _m 13	05	47	5 03	51	22	41	
11	18 21	6 45	1 _m 01	23 05	05	53	42	50	24	38	
12	19 20	7 59	2 25	7 _≡ 41	06	8 00	6 21	49	25	35	
13	20 18	9 14	3 32	21 56	06	07	7 00	47	27	32	
14	21 16	10 28	5 25	5 _m 46	4 07	8 14	7 40	29 46	25 28	13 29	
15	22 15	11 42	7 01	19 10	07	21	8 19	45	29	25	
16	23 13	12 56	8 41	2 1 09	07	29	58	44	31	22	
17	24 12	14 10	10 23	14 46	r07	36	9 37	43	32	19	
18	25 11	15 24	12 08	27 06	06	44	10 17	42	34	16	
19	26 09	16 38	13 54	9 _v 12	06	52	56	41	35	13	
20	27 08	17 52	15 43	21 09	06	9 00	11 35	40	36	10	
21	28 07	19 06	17 32	3 _≡ 02	4 06	9 08	12 15	29 39	25 37	13 06	
22	29 05	20 20	19 21	14 54	05	16	54	38	39	03	
23	0 _≡ 4	21 34	21 11	26 48	04	24	13 34	37	40	00	
24	1 03	22 48	23 02	8 _× 48	03	33	14 13	37	41	57	
25	2 02	24 02	24 52	20 56	02	41	53	36	42	53	
26	3 00	25 16	26 42	3 _γ 13	01	50	15 33	35	43	50	
27	3 59	26 30	28 32	15 42	00	59	16 12	35	44	47	
28	4 58	27 44	0 _≡ 21	28 22	3 59	10 08	16 52	29 34	25 45	12 44	
29	5 57	28 58	2 10	11 8 15	57	17	17 32	34	46	41	
30	6 56	0 _m 12	3 59	24 22	56	26	18 12	33	47	38	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

SEPTEMBER, 1912

Full Moon (Eclipse) September 26th in γ $3^{\circ} 0'$

Declination of the Planets

D	ST	☉ N	♀ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N	♂ N
1	10 41	8 20	3 24	12 04	13 32	18 54	20 59	0 58	20 44	20 37	
2	45	7 58	2 54	19	18 43	54	21 01	42	45	37	
3	49	36	23	31	23 09	54	02	26	45	37	
4	52	14	1 53	40	26 28	54	03	11	45	37	
5	56	6 52	22	45	28 18	54	04	s05	45	36	
6	11 00	29	0 51	46	28 21	54	05	21	45	36	
7	11 04	6 07	0 20	12 44	26 28	18 54	21 06	0 37	20 46	20 35	
8	08	5 45	s11	38	22 46	54	07	53	46	35	
9	12	22	41	29	17 32	54	09	1 09	46	35	
10	16	4 59	1 12	16	11 14	54	10	25	46	34	
11	20	36	43	11 59	4 21	54	11	41	47	34	
12	24	13	2 14	39	2s39	54	12	57	47	34	
13	28	3 51	45	16	9 21	54	14	2 13	47	34	
14	11 32	3 27	3 16	10 49	15 25	18 54	21 15	2 29	20 47	20 34	
15	36	04	46	20	20 33	54	16	45	48	33	
16	40	2 41	4 17	9 48	24 32	53	18	3 01	48	33	
17	44	18	48	14	27 13	53	19	17	48	33	
18	48	1 55	5 18	8 38	28 29	53	20	33	48	33	
19	52	32	49	7 59	28 22	53	22	49	49	32	
20	56	08	6 19	19	26 55	53	23	4 04	49	32	
21	11 59	0 45	6 49	6 38	24 17	18 52	21 24	4 20	20 49	20 32	
22	12 03	22	7 19	5 55	20 37	52	25	36	49	32	
23	07	s02	49	11	16 08	52	27	52	49	31	
24	11	25	8 19	4 27	10 59	52	29	5 08	50	31	
25	15	49	48	3 42	5 22	51	30	24	50	31	
26	19	1 12	9 17	2 56	0N30	51	31	39	50	31	
27	23	35	47	09	6 28	51	33	55	50	30	
28	12 27	1 59	10 15	1 23	12 16	18 50	21 35	6 11	20 50	20 30	
29	31	2 22	44	0 36	17 38	50	36	27	50	30	
30	35	45	11 13	s11	22 18	49	37	42	50	30	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

OCTOBER, 1912

New Moon (Eclipse) October 10th in $\approx 16^{\circ} 48'$

Longitude of the Planets

D	☉ ° ′	♀ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′	♂ ° ′
1	7 55	1 26	5 46	7 42	3R54	10 35	18 52	29R33	25 48	12 34
2	8 54	2 39	7 33	21 18	53	45	19 32	32	49	31
3	9 53	3 53	9 19	5 50	51	54	20 12	32	50	28
4	10 52	5 07	11 04	19 12	49	11 04	20 52	32	51	25
5	11 52	6 21	12 49	3 52	47	13	21 32	31	52	22
6	12 51	7 35	14 33	17 56	45	23	22 12	31	52	18
7	13 50	8 49	16 16	2 52	3 43	11 33	22 52	29 31	25 53	12 15
8	14 49	10 03	17 58	17 04	40	43	23 32	31	54	12
9	15 49	11 17	19 39	1 34	38	53	24 12	31	54	99
10	16 48	12 31	21 20	15 53	35	12 04	24 53	29D31	55	06
11	17 47	13 45	23 00	29 57	33	14	25 33	31	56	03
12	18 47	14 58	24 39	13 42	30	24	26 13	31	56	11 59
13	19 46	16 12	26 18	27 05	27	35	26 54	31	57	56
14	20 46	17 26	27 56	10 07	3 24	12 46	27 34	29 32	25 57	11 53
15	21 45	18 40	29 33	22 47	22	56	28 14	32	58	50
16	22 45	19 54	1 09	5 09	18	13 07	28 55	32	58	47
17	23 44	21 08	2 45	17 17	15	18	29 36	33	59	44
18	24 44	22 21	4 20	29 15	12	29	0 16	33	59	40
19	25 44	23 35	5 55	11 07	09	40	0 57	34	26 00	37
20	26 43	24 49	7 29	22 59	05	51	1 38	34	00	34
21	27 43	26 03	9 02	4 55	3 02	14 02	2 19	29 35	26 00	11 31
22	28 43	27 17	10 35	16 59	2 58	14	2 59	35	00	28
23	29 43	28 30	12 07	29 14	55	25	3 40	36	01	25
24	0 42	29 44	13 39	11 43	51	37	4 21	37	01	22
25	1 42	0 4 58	15 10	24 28	47	48	5 02	38	01	18
26	2 42	2 11	16 40	7 30	43	15 00	5 43	39	01	15
27	3 42	3 25	18 10	20 47	39	12	6 24	39	01	12
28	4 42	4 39	19 40	4 20	2 35	15 24	7 05	29 40	26 01	11 03
29	5 42	5 52	21 09	18 04	31	35	7 46	41	01	05
30	6 42	7 06	22 37	1 59	27	47	8 28	42	R01	03
31	7 42	8 20	24 05	16 01	23	59	9 09	43	01	10 59

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

OCTOBER, 1912

Full Moon October 26th in γ $2^{\circ} 42'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ N
1	12 39	3 09	11 41	0 58	25 54	18 49	21 39	6 58	20 50	20 30
2	43	32	12 09	1 44	28 05	49	40	7 14	50	30
3	47	55	36	2 31	28 36	48	42	29	50	29
4	51	4 19	13 04	3 17	27 16	48	43	45	50	29
5	55	42	31	4 03	24 11	47	45	8 00	50	29
6	59	5 05	58	4 49	19 34	47	46	16	50	29
7	13 03	5 28	14 24	5 34	13 46	18 46	21 48	8 31	20 50	20 29
8	07	51	50	6 19	7 12	46	49	47	50	29
9	10	6 14	15 16	7 03	0 18	45	51	9 02	50	29
10	14	37	41	7 47	6s33	45	53	17	50	28
11	18	59	16 06	8 31	12 57	44	54	32	50	28
12	22	7 22	31	9 13	18 35	43	56	48	50	28
13	26	44	55	9 55	23 08	42	57	10 03	50	28
14	13 30	8 07	17 19	10 37	26 24	18 42	21 59	10 18	20 50	20 28
15	34	29	42	11 18	28 13	41	22 00	33	50	28
16	38	51	18 05	11 58	28 35	41	01	48	50	28
17	42	9 13	27 12	12 38	27 33	40	03	11 03	50	28
18	46	35	49	13 17	25 15	40	04	18	50	28
19	50	57	19 11	13 55	21 53	39	06	32	50	28
20	54	10 19	32	14 32	17 39	38	07	47	50	27
21	13 58	10 40	19 52	15 09	12 42	18 37	22 09	12 02	20 49	20 27
22	14 02	11 02	20 12	15 44	7 14	37	10	16	49	27
23	06	23	31	16 19	1 25	35	12	31	49	27
24	10	44	50	16 54	4N35	35	13	45	49	27
25	14	12 05	21 08	17 27	10 31	34	15	59	49	27
26	17	25	26	17 59	16 08	34	16	13 13	48	27
27	21	46	43	18 31	21 06	33	17	28	48	27
28	14 25	13 06	22 00	19 02	25 05	18 32	22 19	13 42	20 48	20 27
29	29	26	15	19 31	27 40	31	20	55	48	27
30	33	46	31	20 00	28 35	30	21	14 09	47	27
31	37	14 05	45	20 28	27 40	29	23	23	47	27

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

NOVEMBER, 1912

New Moon November 9th in $\text{m } 16^{\circ} 43'$

Longitude of the Planets

D	☉ °m'	♀ °f'	♂ °m'	♂ °Ω'	♂ °Π'	♂ °f'	♂ °m'	♂ °Ω'	♂ °Ω'	♂ °Ω'	♂ °γ'
1	8 42	9 33	25 33	0 08	2R19	16 11	9 50	29 45	26R01	10 56	
2	9 42	10 47	27 00	14 18	15	24 10	32 46	01 53			
3	10 42	12 00	28 25	28 29	10	36 11	13 47	01 50			
4	11 42	13 14	29 51	12m39	06	48 11	54 48	00 46			
5	12 42	14 27	1 f 16	26 46	01	17 00	12 36	50 43			
6	13 43	15 41	2 40	10=47	1 57	13 13	17 51	00 40			
7	14 43	16 54	4 03	24 40	1 52	17 25	13 59	29 53	26 00	10 37	
8	15 43	18 08	5 25	8m23	48	38 14	41 54	00 34			
9	16 43	19 21	6 46	21 52	43	50 15	22 56	25 59	31		
10	17 44	20 35	8 07	5 f 04	38	18 03	16 04	57 27			
11	18 44	21 48	9 26	18 00	34	16 16	46 59	58 24			
12	19 45	23 02	10 44	0Ω38	29	29 17	28 0=00	58 21			
13	20 45	24 15	12 00	12 59	24	41 18	09 02	57 18			
14	21 45	25 28	13 15	25 07	1 19	18 54	18 51	0 04	25 57	10 14	
15	22 46	26 42	14 27	7=05	14	19 07	19 33	06 11			
16	23 47	27 55	15 38	18 57	10	20 20	15 08	56 08			
17	24 48	29 08	16 47	0x47	05	33 20	57 09	55 05			
18	25 48	0Ω22	17 52	12 42	00	46 21	40 11	55 03			
19	26 48	1 35	18 55	24 46	0 55	59 22	22 13	54 9	59		
20	27 49	2 48	19 54	7γ04	50	20 12	23 04	15 55			
21	28 49	4 01	20 50	19 40	0 45	20 25	23 46	0 18	25 52	9 52	
22	29 50	5 14	21 41	2 x 37	40	39 24	28 20	52 49			
23	0 f 51	6 28	22 27	15 56	35	52 25	11 22	51 46			
24	1 51	7 41	23 07	29 37	30	21 05	25 53	24 43			
25	2 52	8 54	23 41	13Π37	25	18 26	35 26	49 40			
26	3 53	10 07	24 08	27 51	21	32 27	18 28	48 36			
27	4 53	11 20	24 27	12Ω14	16	45 28	00 31	47 33			
28	5 54	12 33	24 37	26 40	0 11	21 58	28 43	0 33	25 46	9 30	
29	6 55	13 45	24R38	11Ω03	06	22 12	29 26	36 27			
30	7 56	14 58	24 29	25 20	01	25 0 f 08	38 38	44 24			

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

NOVEMBER, 1912

Full Moon November 24th in Π $1^{\circ} 51'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ N
1	14 41	14 25	22 59	20 54	24 59	18 28	22 24	14 37	20 47	20 27
2	45	44	23 13	21 20	20 47	27	25	50	47	27
3	49	15 03	26	45	15 24	26	27	15 04	46	27
4	53	21	38	22 08	9 12	25	28	17	46	27
5	57	40	49	31	2 34	24	30	30	46	27
6	15 01	58	24 00	52	4s09	23	31	43	45	27
7	15 05	16 16	24 10	23 12	10 37	18 22	22 32	15 56	20 45	29 27
8	09	33	19	31	16 29	22	33	16 09	45	27
9	13	51	28	49	21 27	21	35	22	44	27
10	17	17 08	35	24 06	25 14	20	36	35	44	27
11	21	25	43	21	27 37	19	37	47	44	28
12	24	41	49	35	28 31	18	38	17 00	44	28
13	28	57	55	47	27 57	17	40	12	43	28
14	15 32	18 13	25 00	24 58	26 04	18 16	22 41	17 24	20 43	20 28
15	36	29	04	25 08	23 01	15	42	36	42	28
16	40	44	07	16	19 03	14	43	48	42	28
17	44	59	10	23	14 21	13	45	18 00	41	28
18	48	19 13	12	29	9 06	12	46	11	41	28
19	52	27	13	32	3 27	11	47	23	40	28
20	56	41	14	35	2N26	10	48	34	40	29
21	16 00	19 55	25 13	25 35	8 22	18 09	22 49	18 45	20 40	20 29
22	04	20 08	13	35	14 07	08	50	56	40	29
23	08	20	11	32	19 23	07	51	19 07	39	29
24	12	33	09	28	23 48	06	52	18	39	29
25	16	45	05	22	26 56	05	53	28	38	29
26	20	56	01	15	28 24	05	54	39	38	29
27	24	21 07	24 57	05	27 57	04	55	49	37	30
28	16 28	21 18	24 51	24 54	25 38	18 03	22 56	19 59	20 37	20 30
29	32	29	45	41	21 42	02	57	20 09	36	30
30	35	39	38	26	16 30	01	58	19	35	30

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

DECEMBER, 1912

New Moon December 8th in $\uparrow 16^{\circ} 3'$

Longitude of the Planets

D	☉ ° ↑'	♀ ° ↘'	♂ ° ↑'	♂ ° ηη'	♂ ° γ'	♂ ° ↑'	♂ ° ↑'	♂ ° ↑'	♂ ° ↑'	♂ ° ↑'	♂ ° ↑'
1	8 57	16 11	24R09	9 27	29R56	22 39	0 51	0 40	25R43	9 21	
2	9 57	17 24	23 38	23 25	51	52	1 34	43	42	18	
3	10 58	18 37	22 55	7=12	47	23 06	2 17	46	41	14	
4	11 59	19 49	22 02	20 49	42	19	3 00	48	40	11	
5	13 00	21 02	20 59	4m 16	37	33	3 42	51	39	08	
6	14 01	22 15	19 48	17 33	32	46	4 25	53	38	06	
7	15 02	23 27	18 30	0 ↑ 39	29 28	24 00	5 08	0 56	25 37	9 02	
8	16 03	24 40	17 09	13 33	23	14	5 51	59	35	9 59	
9	17 04	25 52	15 45	26 15	19	27	6 35	1 02	34	55	
10	18 05	27 05	14 24	8↘44	14	41	7 18	04	33	53	
11	19 06	28 17	13 07	21 00	10	55	8 01	07	32	49	
12	20 07	29 29	11 56	3=05	05	25 08	8 44	10	30	45	
13	21 08	0=41	10 54	15 00	01	22	9 27	13	29	42	
14	22 09	1 54	10 02	26 50	28 56	25 36	10 11	1 16	25 28	8 39	
15	23 10	3 06	9 21	8x38	52	50	10 54	19	26	36	
16	24 11	4 18	8 50	20 30	48	26 03	11 38	22	25	33	
17	25 12	5 30	8 31	2 γ 31	44	17	12 21	25	23	30	
18	26 14	6 42	8 23	14 46	40	31	13 04	28	22	27	
19	27 15	7 53	8d24	27 21	36	44	13 48	31	21	23	
20	28 16	9 05	8 35	10 γ 21	32	58	14 32	34	19	20	
21	29 17	10 17	8 54	23 47	28 28	27 12	15 15	1 37	25 18	8 17	
22	0↘18	11 28	9 21	7Π40	24	26	15 59	40	16	14	
23	1 19	12 40	9 56	21 59	20	39	16 43	43	15	11	
24	2 20	13 51	10 36	6=38	17	53	17 26	1 46	13	8 08	
25	3 21	15 02	11 22	21 29	13	28 07	18 10	49	12	04	
26	4 22	16 14	12 13	6Ω23	10	20	18 54	53	10	01	
27	5 24	17 25	13 08	21 11	06	34	19 38	56	08	7 58	
28	6 25	18 36	14 07	5m47	28 03	28 48	20 22	1 59	25 07	7 55	
29	7 26	19 47	15 10	20 06	00	29 01	21 06	2 02	05	52	
30	8 27	20 57	16 15	4=06	27 57	15	21 50	06	04	48	
31	9 28	22 08	17 24	17 48	54	29	22 34	09	02	45	

SIMPLIFIED SCIENTIFIC

EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

DECEMBER, 1912

Full Moon December 24th in ϖ $2^{\circ} 20'$

Declination of the Planets

D	ST	☉ S	♀ S	♂ S	♂ N	♂ N	♂ S	♂ S	♂ S	♂ N
1	16 39	21 48	24 30	24 10	10 29	18 00	22 58	20 28	20 34	20 30
2	43	57	22 23	51	4 01	17 59	59	37	34	30
3	47	22 06	13	30	2s34	58	23 00	47	33	31
4	51	14	03	08	8 58	57	01	56	33	31
5	55	22 23	53	22 44	14 52	56	02	21 04	32	31
6	59	30	42	18	20 00	56	02	13	32	31
7	17 03	22 37	23 30	21 52	24 06	17 55	23 03	21 21	20 31	20 31
8	07	43	17	25	26 54	54	03	30	31	32
9	11	49	04	20 59	28 17	53	04	38	30	32
10	15	55	22 50	32	28 11	52	05	46	29	32
11	19	23 00	36	10	26 41	51	06	53	28	32
12	23	05	21	19 48	23 58	51	06	22 01	28	32
13	27	09	05	30	20 15	50	07	08	27	33
14	17 31	23 13	21 49	19 15	15 46	17 50	23 07	22 15	20 27	20 33
15	35	17	32	04	10 43	49	08	22	26	33
16	39	20	14	18 56	5 15	48	08	28	26	33
17	42	22 20	56	51	0s28	47	09	35	25	34
18	46	24	38	50	6 17	46	09	41	24	34
19	50	25	18	52	12 01	45	10	47	23	34
20	54	26	19 59	57	17 25	45	10	53	23	34
21	17 58	23 27	19 38	19 04	22 10	17 44	23 11	22 58	20 22	20 35
22	18 02	27	18	13	25 50	44	11	23 04	21	35
23	06	27 18	56	24	28 00	43	12	09	20	35
24	10	26	35	36	28 17	43	12	14	20	35
25	14	25	12	49	26 33	42	12	18	19	36
26	18	23 17	50	20 04	22 57	42	12	23	19	36
27	22	21	26	18	17 54	41	13	27	18	37
28	18 26	23 18	17 03	20 33	11 53	17 41	23 13	23 31	20 18	20 37
29	30	15	16 39	49	5 20	40	13	34	17	37
30	34	11	14	21 04	1s20	39	13	38	16	37
31	38	07 15	50	19	7 48	39	13	41	15	38

TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	0	1	2	3	4	5	6	7	8	9	10	11
0	3.1584	1.3802	1.0792	9031	7781	6812	6021	5351	4771	4260	3802	3388
1	3.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
2	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
5	2.4594	1.3454	1.0614	8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	90	88	38	29
10	2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	3730	3323
11	.1170	.3071	.0411	73	7587	56	5890	39	73	72	23	16
12	.0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13	.0444	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
15	1.9823	1.2833	1.0280	8683	7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	11	17	74	71
19	.8796	.2607	.0153	8595	51	46	5797	59	03	09	67	65
20	1.8573	1.2553	1.0122	8573	7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465	5729	5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
30	1.6812	1.2041	0.9823	8361	7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946	.9765	21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
34	.6269	.1852	.9708	8279	06	46	29	13	74	3995	63	70
35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	3164
36	.6021	.1761	.9652	39	74	20	07	4994	57	79	49	57
37	.5902	.1716	.9625	19	59	07	5596	84	49	72	42	51
38	.5786	.1671	.9597	8199	43	6294	85	75	40	64	35	45
39	.5673	.1627	.9570	79	28	82	74	65	32	57	29	39
40	1.5563	1.1584	0.9542	8159	7112	6269	5563	4956	4424	3949	3522	3133
41	.5456	.1540	.9515	40	7097	56	52	47	15	42	15	26
42	.5351	.1498	.9488	20	81	43	41	37	07	34	08	20
43	.5249	.1455	.9462	01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435	8081	50	18	20	18	90	19	3495	08
45	1.5051	1.1372	0.9409	8062	7035	6205	5509	4909	4382	3912	3488	3102
46	.4956	.1331	.9383	43	20	6193	5498	00	74	05	81	3096
47	.4863	.1290	.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305	7985	75	55	66	72	49	82	61	77
50	1.4594	1.1170	0.9279	7966	6960	6143	5456	4863	4341	3875	3455	3071
51	.4508	.1130	.9254	47	45	31	45	53	33	68	48	65
52	.4424	.1091	.9228	29	30	18	35	44	24	60	41	59
53	.4341	.1053	.9203	10	15	06	24	35	16	53	35	53
54	.4260	.1015	.9178	7891	00	6094	14	26	08	46	28	47
55	1.4180	1.0977	0.9153	7873	6885	6081	5403	4817	4300	3838	3421	3041
56	.4102	.0939	.9128	54	71	69	5393	08	4292	31	15	35
57	.4025	.0902	.9104	36	56	57	82	4799	84	24	08	28
58	.3949	.0865	.9079	18	41	45	72	89	76	17	01	22
59	.3875	.0828	.9055	00	27	33	61	80	68	09	3395	16

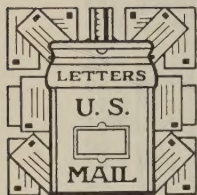
TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees

Min.	12	13	14	15	16	17	18	19	20	21	22	23
0	3010	2663	2341	2041	1761	1498	1249	1015	0792	0580	0378	0185
1	04	57	35	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79
3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
11	45	02	84	89	11	51	05	73	52	42	42	50
12	38	2596	79	84	07	47	01	69	49	39	39	47
13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	64	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798	67	59	71	01	47	07	80	64	58	61	73
37	93	61	54	66	1597	43	03	76	60	54	58	70
38	87	56	49	62	92	39	1099	72	56	51	55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0046
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
51	13	88	85	02	36	86	49	24	11	08	13	27
52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	14	01	0398	04	18
55	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	0015
56	85	62	61	79	15	66	30	06	94	91	0197	12
57	79	56	56	74	10	61	26	03	90	88	94	09
58	74	51	51	70	06	57	22	0799	87	84	91	06
59	68	46	46	65	02	53	18	95	83	81	88	03

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